



General Notes for Sanitary Sewer Projects

1. All workmanship and materials shall be in accordance with City of Marysville standards and the most recent copy of the State of Washington Standard Specifications for Road, Bridge, and Municipal Construction (WSDOT/APWA).
2. City of Marysville datum (NGVD, 1960 supplemental adjustment) shall be used for all vertical control. A list of benchmarks is available at the Public Works Department.
3. All approvals and permits required by the City of Marysville shall be obtained by the Contractor prior to the start of construction. All sanitary improvements shall be constructed in accordance with these approved plans. Any deviation from these plans shall require prior approval from the Owner, the City Engineer, and other appropriate public agencies.
4. If construction is to take place in the County right-of-way, the Contractor shall contact the City Public Works Department to obtain all the required approvals and permits.
5. A preconstruction meeting shall be held with the City of Marysville Department of Public Works prior to the start of construction.
6. The City of Marysville Department of Public Works shall be notified a minimum of 48 hours in advance of a tap or connection to an existing sanitary sewer main. The inspector shall be present at the time of the tap or connection.
7. The Contractor shall be fully responsible for the location and protection of all existing utilities. The Contractor shall verify all utility locations prior to construction by calling the Underground Locate Line at 1-800-424-5555 a minimum of 48 hours prior to any excavation.
8. Gravity sewer main shall be PVC, ASTM D 3034 SDR 35 or ASTM F 789 with joints and rubber gaskets conforming to ASTM D 3212 and ASTM F 477.
9. Precast manholes shall meet the requirements of ASTM C 478. Manholes shall be Type 1-48" manhole unless otherwise specified on the plans. Joints shall be rubber gasketed conforming to ASTM C 443 and shall be grouted from the inside. Lift holes shall be grouted from the outside and inside of the manhole.
10. Side sewer services shall be PVC, ASTM D 3034 SDR 35 with flexible gasketed joints. Side sewer connections shall be made by a tap to an existing main or a tee from a new main connected above the spring line of the pipe. The contractor shall provide the City with accurate As-Built Drawings of all side sewer locations.

11. All sewer mains shall be field staked for grades and alignment prior to construction by a licensed engineer or surveying firm qualified to perform such work. Prior to constructing any sewer, the lot corners shall be staked and sewer line location established by survey, cost of which shall be borne by the Developer.
12. All plastic pipe and services shall be installed with continuous tracer tape installed 12" to 18" under the proposed finished sub grade. The marker shall be plastic non-biodegradable, metal core or backing marked sewer which can be detected by a standard metal detector.
13. Each side sewer lateral shall have a 2" x 4" wood "marker" at the termination of the stub. The "marker" shall extend from the trench to above finished grade. Above the ground surface, it shall be painted "green" with "S/S" and the depth, in feet, stenciled in black letters 2" high.
14. Side sewers shall be installed by the Developer and coordinated for clearance with power, telephone, and other utilities. All side sewers to be installed 10 feet into lot served and staked and marked as shown on these plans.
15. Pipe bedding shall be in accordance with WSDOT Standard Plan B-18c Class F. Pea gravel is an acceptable bedding material. All pipe shall be laid on a properly prepared foundation according to Standard Specification 7-02.3(1). This shall include necessary leveling of the trench bottom or the top of the foundation materials as well as placement and compaction of required bedding material to uniform grade so that the entire length of the pipe will be supported on a uniformly dense unyielding base.
16. A 3-foot square x 4-inch thick asphalt or concrete pad shall be installed around all cleanouts that are not in a pavement area.
17. Temporary street patching shall be allowed for as approved by the City Engineer. Temporary street patching shall be provided by placement and compaction of 1-inch maximum asphalt concrete cold mix. Contractor shall be responsible for maintenance as required.
18. Erosion control measure shall be taken by the Contractor during construction to prevent infiltration and inflow into existing and proposed sanitary sewer facilities.
19. Provide traffic control plan(s) in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) as required.
20. It shall be the responsibility of the Contractor to have a copy of these approved plans on construction site at all times.
21. Any changes to the design shall first be reviewed and approved by the project engineer and the City of Marysville.
22. All lines shall be cleaned and pressure tested prior to paving in conformance with the above referenced specifications. (See note 1.) Testing of the sanitary sewer main shall include TV

inspection of the main by the Contractor. Immediately prior to TV inspection enough water shall be run down the line so it comes out the lower manhole. A copy of the video tape shall be submitted to the City of Marysville. Acceptance of the line will be made after the tape has been reviewed and approved by Public Works. A water test of all manholes in accordance with Marysville standard may also be required. Testing shall take place after all underground utilities are installed and compaction of the roadway sub grade is completed.

23. Prior to backfill all mains and appurtenances shall be inspected and approved by the City of Marysville

Department of Public Works. Approval shall not relieve the Contractor for correction of any deficiencies and/or failures as determined by subsequent testing and inspections. It shall be the Contractor's responsibility to notify the City of Marysville for the required inspections.